

WHAT IS CLAIMED IS:

1. A nozzle vane for a rotary disk of a turbomachine, the vane presenting mutually orthogonal longitudinal, tangential, and radial axes, and having pressure side and suction side surfaces extending radially between a base and a tip, and longitudinally between a leading edge and a trailing edge, and a plurality of vane sections having centers of gravity in alignment along a stacking axis, said vane presenting a lower portion, an intermediate portion, and an upper portion, said lower portion extending radially between the base of the vane and a lower limit of the intermediate portion, and said upper portion extending radially between an upper limit of the intermediate portion and the tip of the vane, wherein the stacking axis presents, in the lower and upper portions, a tangential component that is substantially radial, and in the intermediate portion, a tangential component having two slopes.
2. A vane according to claim 1, wherein the tangential component of the stacking axis, in said intermediate portion, comprises a first slope in the direction opposite to the direction of rotation of the disk, and a second slope in the direction of rotation of said disk.
3. A vane according to claim 2, wherein said first slope presents an angle of inclination with respect to the radial direction lying in the range 5° to 45° .
4. A vane according to claim 2, wherein said second slope presents an angle of inclination with respect to the radial direction lying in the range 5° to 45° .
5. A vane according to claim 2, wherein said first slope extends radially between the lower limit of the intermediate portion and a bend point situated between the lower and upper limits of said intermediate portion,

and said second slope extends radially between said bend point and said upper limit.

5 6. A vane according to claim 5, wherein the tangential component of the stacking axis of the intermediate portion occupies a radial height lying in the range 35% to 65% of a total radial height between the base and the tip of said vane.

10 7. A vane according to claim 1, wherein the tangential component of the stacking axis of the lower portion occupies a radial height lying in the range 10% to 25% of a total radial height between the base and the tip of said vane.

15 8. A vane according to claim 1, wherein the tangential component of the stacking axis of the upper portion occupies a radial height lying in the range 10% to 25% of a total radial height between the base and the tip of
20 said vane.